

AMENDMENT TO THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A curable mold release composition comprising:
 - a) a non-volatile organic (non-VOC) carrier composition; and
 - b) a curable component comprising a combination of at least one cross-linker selected from a monomeric, cyclic, oligomeric or polymeric silazane; an amino-functional silazane; an enoxy functional silazane; a silicon hydride; an amino functional silane without alkoxy functionality; a tris methylamino functional silane; a methylethylketoxime functional silane; an acetoxymethyl functional silane; a tris enoxy functional silane; and combinations thereof; and at least one polyfunctional siloxane;wherein said mold release composition when applied as a coating cures to a durability which permits at least five releases without transfer of mold release composition to a part.
2. (Original) The composition of claim 1, further comprising a volatile organic carrier in combination with said non-VOC carrier composition to form a low-volatile organic (low-VOC) carrier composition.
3. (Original) The composition of claim 1, wherein said curable component is selected from the group consisting of moisture curable; heat curable; and combinations thereof.
4. (Original) The composition of claim 1, having a gloss value of at least 80 as measured by a 60 degree gloss meter.
5. (Original) The composition of claim 4, having a durability when cured which permits at least five releases without measurable loss of said gloss value.

6. (Original) The composition of claim 1, wherein said non-VOC carrier composition comprises a compound selected from the group consisting of branched, linear or cyclic siloxanes having 2-6 silicon atoms; branched, linear or cyclic fluorinated alkanes; and combinations thereof.

7. Cancelled

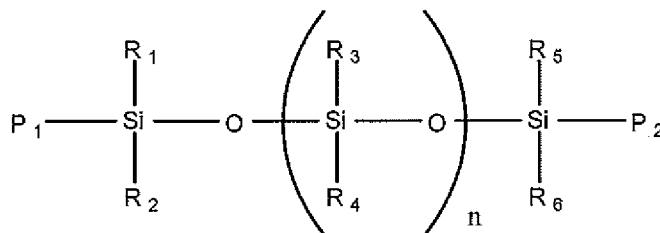
8. (Original) The composition of claim 6, wherein said siloxane carrier is selected from the group consisting of hexamethyldisiloxane, octamethyltrisiloxane, cyclotetrasiloxane, octamethylcyclotetrasiloxane, decamethyltetrasiloxane, decamethylcyclopentasiloxane and combinations thereof.

9. Cancelled

10. (Currently Amended) The composition of claim 1, wherein said non-VOC carrier composition is present in amounts of about 95.90% to about 99.8% by weight of the total composition.

11. (Original) The composition of claim 6, wherein said siloxane carrier does not react with said curable component.

12. (Currently Amended) The composition of claim 1, wherein said polyfunctional siloxane is one or more compounds of the formula:



wherein R₁, R₂, R₃, R₄, R₅, and R₆ are ~~may be~~ the same or different and can ~~may~~ be alkyl, aromatic hydrocarbon, organoamine, fluorinated hydrocarbon, organo-alkoxy, hydro, organo-mercapto, organo-chloro, organo-cyano, or allyl; P₁ and P₂ are ~~may be~~ the same or different and can ~~may~~ be alkyl, hydroxyl, hydro, allyl, carbinol, amino, acetoxy, alkoxy, enoxy, or oxime groups; and wherein n=0-100,000.

13. (Original) The composition of claim 1, wherein said polyfunctional siloxane is a hydroxy-terminated polydimethyl siloxane having an average molecular weight of about 200 to about 400,000.

14. Cancelled

15. (Original) The composition of claim 1, having a room temperature solvent evaporation range of about 0.01 to about 1,000,000.

16. (Currently Amended) The composition of claim 1, having a non-catalyzed room temperature cure time until formation of a mold release coating in the range of about 2 minutes to about 6 ~~[[48]]~~ hours.

17. (Original) The composition of claim 1, wherein said polyfunctional siloxane has a viscosity of about 50 to about 2,000,000 cps at room temperature.

18. Cancelled

19. (Original) The composition of claim 1, further including a moisture catalyst.

20. Cancelled

21. (Original) A curable mold release composition comprising: a) a carrier

composition comprising a compound selected from the group consisting of branched, linear, or cyclic siloxanes having 2-6 silicon atoms; and b) a curable composition comprising an amino-functional silazane and a polyfunctional siloxane, wherein said carrier is present in amounts of about 90% to about 99.8% by weight of the total composition.

22. (Currently Amended) A method of preparing a curable mold release composition comprising: a) providing a carrier composition; and b) mixing the carrier composition with a curable composition comprising at least one cross-linker selected from a monomeric, cyclic, oligomeric or polymeric silazane; an amino-functional silazane; an enoxy-functional silazane; a silicon hydride; an amino functional silane without alkoxy functionality; a tris methylamino silane; a methylethylketoxime functional silane; an acetoxymethyl functional silane; an enoxy functional silane; and combinations thereof; and at least one polyfunctional siloxane.

23. (Original) The method of claim 22, wherein the step of providing a carrier composition comprises providing a composition comprising a compound selected from the group consisting of branched, linear, or cyclic siloxanes having 2-6 silicon atoms; branched, linear or cyclic fluorinated alkanes; and combinations thereof.

24. (Currently Amended) A method of preparing a mold release coating comprising the steps of:

preparing a) applying a mold release composition comprising: i) a carrier composition comprising a compound selected from the group consisting of branched, linear or cyclic siloxanes having 2-6 silicon atoms; branched, linear or cyclic fluorinated alkanes; and combinations thereof; and ii) a curable component comprising a combination of at least one cross-linker selected from a silazane; an amino-functional silazane; an enoxy-functional silazane; an amino functional silane without alkoxy functionality; a tris methylamino functional silane; a methylethylketoxime functional

silane; an acetoxy functional silane; an enoxy functional silane; and combinations thereof and at least one polyfunctional siloxane;

applying the mold release composition to a mold surface;

evaporating a portion of the carrier composition; and

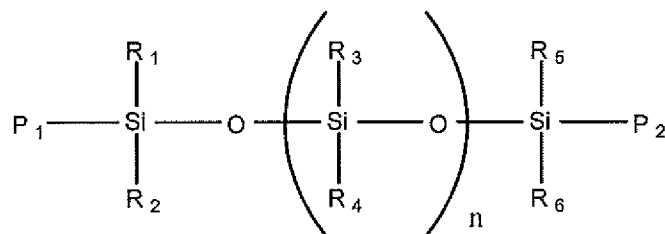
b) allowing the mold release composition to cure on the mold surface.

25. (Currently Amended) The method of claim 24, wherein the step of allowing the mold release composition to cure further comprises allowing the mold release composition to cure to a high gloss finish of at least 80 as measured by a 60 degree gloss meter.

26. (New) The method of claim 24, wherein said polyfunctional siloxane is a hydroxy-terminated polydimethyl siloxane having an average molecular weight of about 200 to about 400,000.

27. (New) The method of claim 24, wherein the cross-linker is selected from the group consisting of a silazane; an amino-functional silane without alkoxy functionality; an enoxy-functional silane; and combinations thereof; and

the polyfunctional siloxane is one or more compounds of the formula:



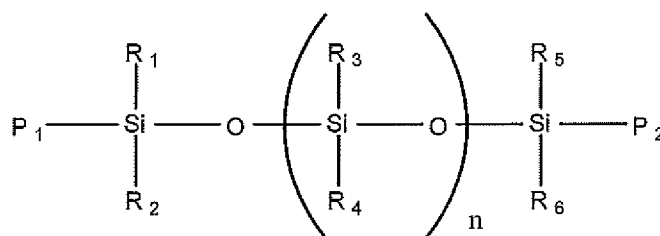
wherein R₁, R₂, R₃, R₄, R₅, and R₆ are the same or different and can be alkyl, aromatic hydrocarbon, organoamine, fluorinated hydrocarbon, organo-alkoxy, hydro, organo-mercapto, organo-chloro, organo-cyano, or allyl; P₁ and P₂ are the same or different and can be hydroxyl, hydro, or alkoxy; and n is 0 to 100,000.

28. (New) The composition of Claim 1 wherein the cross-linker is selected from the group consisting of a cyclic silazane; an amino-functional silane without alkoxy functionality; and combinations thereof.

29. (New) The composition of Claim 1 wherein the carrier composition comprises a compound selected from the group consisting of branched, linear or cyclic siloxanes having 2-6 silicon atoms; branched, linear or cyclic fluorinated alkanes; and combinations thereof;

the cross-linker is selected from the group consisting of a cyclic silazane; an amino-functional silane without alkoxy functionality; a tris enoxy functional silane; and combinations thereof; and

the polyfunctional siloxane is one or more compounds of the formula:



wherein R₁, R₂, R₃, R₄, R₅, and R₆ are the same or different and can be alkyl, aromatic hydrocarbon, organoamine, fluorinated hydrocarbon, organo-alkoxy, hydro, organo-mercapto, organo-chloro, organo-cyano, or allyl; P₁ and P₂ are the same or different and can be hydroxyl, hydro, or alkoxy; and n is 0 to 100,000.

30. (New) The composition of Claim 1 wherein the cross-linker is selected from the group consisting of a cyclic trisilazane; a tris methylamino functional silane; a tris enoxy functional silane; and combinations thereof.